

LITVIN, D.M.; GITEL'MAN, L.S.

The 1all mixing mulling machines. Biul.tekh.-ekon.inform.

no.7 90-22 '61.

(MI-A 14:8)

(Molding machines)

LITVIN, D.M.; GITEL'MAN, L.Sh.

Automatically controlled IAll pug mills. Lit. proizv. no.9:29-32
S '61. (MIRA 14:9)
(Mixing machinery) (Automatic control)

LITVIN, D.M.; GITEL'MAN, L.Sh.

Automated tumbling barrel model ZAll, for cleaning castings. Lit.
proizv. no.8:10-12 Ag '62. (MIRA 15:11)
(Foundries--Equipment and supplies)
(Metal cleaning) (Automation)

LITVIN, D.M.; MOROZOV, N.N.

Machines for the centrifugal casting of bushings. Lit. proizv.
no.1:20-22 Ja '62. (MIRA 16:8)

(Centrifugal casting--Equipment and supplies)

GITEL'MAN, L.Sh., inzh.; LITVIN, D.M., inzh.

Automatic gravity die casting machine for making aluminum
tractor engine pistons. Lit. proizv. no.11:15-19 N '65.

(MIRA 18:12)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000930210012-3

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APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000930210012-3"

[illegible]

Page 2/2

LITVIN, D.F.; PERCELY, M.H.

The 90007 automatic rotating sand-blast coremaking machine.
Biol. tech. ekon. inform. no.3:20-23 '69. (MIRA 13:3)
(Coremaking)

BURLAKOVA, Yelena Vladimirovna; VLADIMIROV, Yuriy Andreyevich;
KOL'S, Olga Romanovna; BAICHEV, Yuriy Arkadyevich;
KUDRYASHOV, Yuriy Borisovich; IL'IN, Boris Pavlovich;
KOR AZYUK, Vasil'y Gabor'yevich; GITEKASOVA, V.I., red.

[Laboratory work in biophysics] Nauchnyy praktikum po biophizike.
[By] E.V. Burlakova i dr. Moskva, Vysshaya shkola, 1964.
407 p. (MIRA 1814)

APPROVED FOR RELEASE: 03/13/2001

ACCESSION NR: AP4012096

S/0020/64/154/002/0460/0462

AUTHORS: Litvin, F. F.; Sineshchekov, V. A.; Krasnovskiy, A. A.
(Corresponding member)

TITLE: On long-wave forms of chlorophyll in photosynthesizing organisms and aggregate structures

SOURCE: AN SSSR. Doklady*, v. 154, no. 2, 1964, 460-462

TOPIC TAGS: long wave spectrum, chlorophyll spectrum, photosynthesis, photosynthesizing organisms, aggregate chlorophyll structure, chlorophyll structure, low temperature spectroscopy, luminescence spectroscopy

ABSTRACT: In the search for a model system closely approximating in vivo conditions for studying spectrum-luminescent properties of natural forms of chlorophyll at -196C, chlorophyll films containing a certain quantity of solvent (ether) were used, i.e. a system ranging from concentrated solution to crystalline pigment layer. Spectrophotometric determinations were conducted on these as well as on chlorophyll-adsorbed chromatographic paper. Five maxima were

ACCESSION NR: AP4012096

found between 680 and 825 m μ , the first value corresponding to films saturated with solvent, the last to compact films. Short-wave intensity yielded in the same order to long-wave intensity. Comparison with maxima obtained earlier under these conditions from chlorophyll in photosynthesizing organisms showed closely approximating values. These maxima may correspond to various aggregate chlorophyll forms. The possible composition of these forms is discussed (702-705 m μ may correspond to the "oriented chlorophyll"). Orig. art. has: 3 Figures and 1 Table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University); Institut biokhimi im. A. N. Bakha Akademii nauk SSSR (Institute of Biochemistry, Academy of Sciences, SSSR)

SUBMITTED: 06Sep63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: CH

NR REF SOV: 005

OTHER: 006

Card 2/2

L 8709-65 EWT(1)/EWT(m)/EEC(b)-2 IJP(c)/APGC(b)/ESD(gs)/BSD/AS(mp)-2/AFWL/ESD(t)/
 ASD(a)-5 RM
 ACCESSION NR: AP4045638 S/0020/64/158/002/0460/0463

AUTHOR: Litvin, F. F.; Gulyayev, B. A.

TITLE: Luminescence and absorption spectra of chlorophyll-a monolayers and films

SOURCE: AN SSSR. Doklady, v.158, no. 2, 1964, 460-463

TOPIC TAGS: tetrapyrrol pigment, chlorophyll a, luminescence spectrum, absorption spectrum, chlorophyll absorption spectrum, chlorophyll luminescence spectrum

ABSTRACT: An attempt has been made to detect the luminescence of chlorophyll-a in monolayers, to investigate its spectra, and to determine the dependence of the absorption and luminescence spectra on pigment concentration, temperature, and certain other factors. The results were compared with data obtained previously for live leaves or algae. The luminescence of chlorophyll in monolayers was definitely established at room temperature and at low temperatures. An increase in the concentration of chlorophyll resulted in a gradual weakening of shortwave maxima and the appearance of new maxima in the longwave

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L B709-65

ACCESSION NR: AP4045638

range. It was assumed that these phenomena are caused by the aggregation of chlorophyll. This fact, as well as the observation that the new maxima become predominant in the luminescence spectrum, while the corresponding maxima in the absorption spectrum have not yet been developed, can be explained by the migration of excitation energy from chlorophyll shortwave forms to longwave forms which are responsible for the longwave maxima. A parallel is drawn with energy migration in live plants. Low temperatures cause a considerable increase in the intensity of the longwave maxima, but have a lesser effect on the shortwave maxima. The general character of the temperature changes in the luminescence spectra is close to that in vivo. Some monolayers are sensitive to light and disaggregate and bleach under its influence. Longwave forms (absorption maximum, 740 m) are more stable against the effects of light and seem also to protect the shortwave forms. Bleaching was observed both in the presence and in the absence of air; it was inhibited at -196C; heating to 100C did not markedly affect the luminescence spectra of the specimens. All these facts indicate the formation of aggregated chlorophyll states under certain conditions, and energy migration from less aggregated forms to longwave, densely packed forms. A certain resemblance be-

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L 8709-65

ACCESSION NR: AP4045638

2

tween the model systems studied and live systems exists. However, differences are to be expected because of the presence of protein-lipid complexes which accompany the pigments in vivo. It was observed that the spectra of monolayers and films, unlike those of living organisms, are not sensitive to heating. "Gratitude is expressed to A. A. Krasnovskiy for his valuable advice and continuous attention to the study." Orig. art. has: 4 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 19Feb64

ATD PRESS: 3112 ENCL: 00

SUB CODE: OC, OP

NO REF SOV: 006 OTHER: 003

Card 3/3

KRASNOVSKIY, A.A., otv. red.; GODNEV, F.N., akademik, red.; NISHCHENKO, A.A., prof., red.; TELENIN, A.N., akademik, red.; LITVIN, P.F., red.

[Biochemistry and biophysics of photosynthesis] Biokhimiya : biofizika fotosinteza. Moskva, Nauka, 1965. 318 p.

(MIRA 18:10)

1. Akademiya nauk SSSR. Nauchnyy sovet po probleme "Fotosintez."
2. Chlen-korrespondent AN SSSR (for Krasnovskiy).

L 56009-65 EWG(j)/EWG(r)/EWT(1)/RS(v)-3/ENG(v)/ENG(a)-2/ENG(c) DD
 ACCESSION NR: AP5015653 UR/0217/65/010/003/0531/0533

28
27
8

AUTHOR: Andrianov, V. K.; Kurella, G. A.; Litvin, F. F.

TITLE: Changes in the potential of Nitella cells under light and the resulting effect on photosynthesis

SOURCE: Biofizika, v. 10, no. 3, 1965, 531-533

TOPIC TAGS: algae, photosynthesis, cell resting potential, cell potential, Nitella

ABSTRACT: Experiments were conducted to determine the influence of light on the resting potential (RP) of Nitella flexilis algae and the resulting effect on photosynthesis. Algae cells were subjected to various light-dark regimes after preliminary storage in KCl solution; changes in the RP value during illumination of cells with light of different intensity were measured with "microelectrodes." The light source was a 20-w incandescent bulb with a set of neutral filters and a red filter. During slight illumination, decrease of the RP value was proportional to the light intensity, but only up to a certain level (3000 lux). A typical curve of change of the RP value is shown in the figure, together with a curve of the photosynthesis rate determined by the polarographic method in parallel experiments (see Fig. 1 of the Enclosure). The form of both curves analogously depends on conditions of pre-Card 1/3

L 56009-65
 ACCESSION NR: AP5015653

liminary illumination and light intensity. The fact that the RP value changed during illumination of cells with red light (wavelength $> 600 \text{ m}\mu$), which can be absorbed only by chlorophyll and analogous pigments, indicates the connection between these changes and photosynthesis processes. It was concluded that a close connection exists between the effect of RP change during illumination and photosynthesis processes, although the mechanism of this connection is not yet known. Change of the resting potential may be connected with changes of ions which determine the cell's potential, with some special adaptive mechanism, or with photobiological processes. Orig. art. has 3 figures. [JS]

ASSOCIATION: Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova (Department of Soil Biology, Moscow State University)

SUBMITTED: 04 Aug 64

ENCL: 01

SUB CODE: LS

NO REF SOV: 004

OTHER: 004

ATD PRESS: 4034

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

[illegible]

1941

... Мандрицького, а також університетський імені Тараса Шевченка.

LITVIN, F.F.; GULYAYEV, B.A.; SINESHCHEKOV, V.A.

Aggregated forms of chlorophyll-a, chlorophyll-b, and β -carotene in monolayers and membranes; migration of energy between them and within the complex (chlorophyll-a + β -carotene). Dokl. AN SSSR 162 no.5:1184-1187 Je '65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet. Submitted June 27, 1964.

L 39870-66 EWT(1) SCTB RD/CD-2

ACC NR: AP6018144

SOURCE CODE: UR/0020/65/162/005/1184/11.

AUTHOR: Litvin, F. F.; Gulyayev, B. A.; Sineshechekov, V. A.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Aggregated forms of chlorophyll² A, chlorophyll B, and beta-carotene in monolayers and films; migration of energy between them and in the 'chlorophyll A + beta-carotene' complex

SOURCE: AN SSSR. Doklady, v. 162, no. 5, 1965, 1184-1187

TOPIC TAGS: chlorophyll, absorption spectrum, pigment, plant chemistry

ABSTRACT: The absorption spectra of monolayers and thin films of predominantly trans-forms of carotene differ from the spectra of the pigment in the initial solution by a shift in the long-wave direction and predominance of the longest wave maximum, 520 millimicrons. When the films are stored, a new form appears, with an even more substantial "red shift" to 536-540 millimicrons. This shift is explained by strong interaction of the chromophores and the appearance of aggregates (polymers and microcrystals of the pigment). In mixed films of chlorophyll and beta-carotene, an additive spectrum was obtained only at a high relative concentration of carotene (chlorophyll/Ccarotene ≤ 0.6), indicating a mutual influence of the pigments on the conditions of their aggregation. The migration of energy between beta-carotene and chlorophyll A was investigated according to the spectra of excitation of

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ACC NR: AP6018144

the luminescence of chlorophyll in mixed films. Sensitization of the luminescence of chlorophyll by carotene, with a maximum coinciding with the absorption maximum of the K500 form of carotene, was detected. Aggregated forms of chlorophyll B were detected in an investigation of monolayers and films of this pigment. The authors note that certain maxima ascribed to chlorophyll A in vivo might belong to aggregated forms of chlorophyll B. Mixed films of chlorophylls A and B are more homogeneous than films of pure chlorophyll B. A mechanism of effective energy migration from the short-wave to the long-wave forms of chlorophyll A operates in monolayers and films. The nature of the various forms of the pigments is discussed; the different types of aggregation of the chromophores, observed in monolayers, have also been obtained in solutions of the pigments. Although the structure of the monolayer does not exclusively determine the forms of the chromophores, the conditions existing in the monolayer are extremely important in the formation of certain forms and the appearance of a close steric and energy interaction among them. This paper was presented by Academician V. N. Shaposhnikov on 27 June 1964. Orig. art. has: 4 figures and 1 table. [JPRS]

SUB CODE: 06 / SUBM DATE: 27Jun64 / ORIG REF: 007 / OTH REF: 004

Card 2/2 *h/5*

38070. LITVIN, F. L., SEMENOV, E. V., AND KOLCHIN, N. I.

Doktor Tekhnicheskikh nauk professor khrisano Fedorovich ketov.

[Spetsialist v oblasti mashinostroyeniya, 1887-1948]. Trudy seminarov po teorii mashin i mekhanizmov (Akad. Nauk SSSR, in-t, mashinovedeniya), T. VIII, vyp. 29, 1948, s. 7-11, s. portr.

38072. LITVIN, F. L.

Nekotorye voprosy teorii zatsepleniya nekruglykh tsilindricheskikh koles. Trudy seminarov po teorii mashin i mekhanizmov (Akad. nauk SSSR, In-T Mashinovedeniya), T. VIII, vyp. 29, 1949, s. 48-73

Mathematical Reviews
Vol. 14 No. 7
July - August, 1953
Mechanics.

Litvin, F. L. Determination of tooth thickness of worms and helical gears by means of rollers and balls, Akad. Nauk SSSR. Trudy Sem. Teorii Mašin i Mechanizmov 10, no. 39, 22-55 (1951). (Russian)

The necessary accuracy of tolerance control for spatial gears makes direct measurements of tooth thickness w_{α} impracticable. A method using cylindrical rollers or balls inserted in between the teeth is proposed. A (parametric) relation between the position parameter r of the ball or roller and w_{α} is developed but the equation is too involved for practical use. Therefore, approximate formulas for the relation between dr and dw_{α} are derived, which make it possible to estimate the relation of the error to the tolerance. Numerical examples are given for the three cases of involute, convolute, and Archimedean tooth surfaces.

A. W. Wundheiler (Chicago, Ill.).

LITVIN, F. L.

KOLCHIN, N. I.; LITVIN, F. L.; FRAYFELD, I. A., kandidat tekhnicheskikh nauk, retsenzent; MYASNIKOV, N. N., kandidat tekhnicheskikh nauk, redaktor; DLUGOKANSKAYA, Ye. A., tekhnicheskii redaktor

[Calculation methods in the manufacture and control of geared parts; application of analytical theory and geometry to gearing]
Metody rascheta pri izgotovlenii i kontrole zubchatykh izdaniy;
prilozhenie analiticheskoi teorii i geometrii zatseplenii. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1952. 268 p.

[Microfilm]

(MLRA 7:10)

(Gearing)

LITVIN, F.L.

LITVIN, F.L.; PRINTSENTAL', S.G.; SHIGORIN, G.F.; KOLCHIN, N.I., professor,
doktor tekhnicheskikh nauk, redaktor.

[Production of multiple-thread worm gears with new geometry]
Proizvodstvo mnogozakhodnykh cherviachnykh peredach s novoi
geometrii. Pod obshchei red. N.I.Kolchina. Leningrad, Gos.
nauchno-tekhn. izd-vo mashinostroit.i sudostroit. lit-ry [Le-
ningradskoe otd-nie] 1953. 50 p. (Novatory proizvodstva)

(MLRA 7:3)

(Gearing, Worm) (Spiral milling)

LITVIN, F.L.

PRINTSENTAL', S.G.; PTITSYN, G.A.; PETRUSEVICH, A.I., doktor tekhnicheskikh nauk, retsenzent; LITVIN, F.L., kandidat tekhnicheskikh nauk, retsenzent; KOKICHEV, V.N., inzhener, redaktor; POL'SIAYA, R.G., tekhnicheskii redaktor

[Technology of turbine reduction gear production] Tekhnologiya
proizvodstva turbinnykh reduktorov. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1953. 303 p. [Microfilm]

(Turbines)

(Gearing)

(MLRA 7:10)

LITVIN, F.L.

Methods for the investigation of three-dimensional gearing with
linear contact surfaces. Trudy Sem.po teor.mash.13 no.49:16-55
'53. (MLRA 7:12)

(Gearing)

LITVIN, F. L.; PAVLOV, A. G.

Gear-Cutting Machines

Rebuilding gear-cutting machine for cutting teeth in thin gear blanks. Stan.
i instr. 21, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1953. Incl.

LITVIN, Faydor L'vovich.

Academic degree of Doctor of Technical Sciences, based on his defense, 21 May 1954, in the Council of the Leningrad Polytechnic Inst imeni Kalinin, of his dissertation entitled: "Theory and Methods of Producing Cogged Gears with Alternate Transmission Number."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 12, 28 May 55, Byulleten' MVO SSSR, No. 15, Aug 56, Moscow, pp. 5-24, Uncl. JPRS/NY-537

Litvin, F. L.

USSR/Engineering - Industrial tools

Card 1/1 Pub. 103,- 9/22

Authors : Litvin, F. L. and Pavlov, G. G.

Title : ~~Attachment for threading of oval-shaped cog wheels~~
Attachment for threading of oval-shaped cog wheels

Periodical : Stan. i instr. 2, 26-29, Feb 1954

Abstract : The development and successful employment of a special attachment for the threading of oval-shaped cog wheels is reported. The technical characteristics and the advantages of the new attachment are described. Three USSR references (1950-1953). Drawings; illustrations.

Institution :

Submitted :

LITVIN, F.L.

Design of non-circular gearing used in machine construction. Trudy
Sen. po teor.mash. 14 no.55:20-48 '54. (MLRA 8:1)
(Gearing)

LITVIN, F.L.

LITVIN, F.L.; PAVLOV, G.G.

Machine for cutting non-circular gears. Stan.1 instr. 25 no.2:26-29
F '54. (MLRA 7:5)

(Gear-cutting machines)

USSR/Engineering - Calibration

Card : 1/1 Pub. 123 - 28/32

Authors : Litvin, F. L.

Title : The problem of checking the teeth thickness of bevel gears with the aid of round pellets. (letter to the editor)

Periodical : Vest. mash. 34/7, 82, July 1954

Abstract : The author questions the correctness of Ya. S. Davydov's mathematical formulas #247, and 248, listed on page 81 of this publication. Opinions, expressing his own views on the above subject, are presented.

Institution : ...

Submitted : ...

LITVIN, F.L.; FAYNSHTEYN, D.L.

Design of cylindrical thread chasers. Stan. i instr. 26 no.7:
22-25 J1 '55. (MLRA 8:9)

(Screw cutting)

LITVIN, Faydor I'yovich, doktor tekhnicheskikh nauk; PYZH, O.A., inzhener, retsenzent; GOLOVANOV, N.F., kandidat tekhnicheskikh nauk, redaktor; GOFMAN, Ye.K., redaktor izdatel'stva; POL'SKAYA, R.G., tekhnicheskiiy redaktor

[Non-circular gears; design, theory of meshing, and production]
Nekruglye zubchatye kolea; proektirovanie, teoriia zatsepleniia
i proizvodstvo. Izd. 2-oe, perer. i dop. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, 1956. 311 p. (MLBA 9:7)
(Gearing)

AID P - 5375

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 5/28

Author : Litvin, F. L.

Title : Curvilinear gear wheels

Periodical : Stan. i instr., 9, 16-19, S 1956

Abstract : Types and purposes of gears of special shapes and their use in automatic machines, in computer-controlled machines and in making special apparatuses are described. Their manufacturing with special grooving machines, gear-milling machines and hobbing machines is outlined. Ten drawings, 2 photos; 3 Russian references (1938-54) and 1 English.

Institution : None

Submitted : No date

LITVIN, F.L.; YABLONSKIY, N.S.

Designing and cutting teeth of multiturn noncircular gearwheels.
Priborostroenie no.6:22-24 Je '57. (MIRA 10:7)
(Gearing)

1.7.13, L.L.

25(2)

PHASE I BOOK EXPLOITATION

SOV/2562

Akademiya nauk SSSR. Institut mashinovedeniya. Seminar po
teorii mashin i mekhanizmov

Trudy, tom 17, vyp. 68 (Transactions of the Institute of Mechanical
Engineering, Academy of Sciences, USSR. Seminar on the Theory
of Machinery and Mechanisms, Vol 17 Nr. 68) Moscow, Izd-vo
AN SSSR, 1958. 69 p. 3,000 copies printed.

Eds. of Publishing House: V.V. Pobedimskiy and M.M. Knoroz;
Tech. Ed.: A.P. Guseva; Editorial Board: I. I. Artobolev-
skiy, Academician (Resp. Ed.); G.G. Baranov, Doctor of
Technical Sciences, Professor; V.A. Zinov'yev, Doctor of
Technical Sciences, Professor; A.Ye. Kobrinskiy, Doctor
of Technical Sciences; V.T. Kostitsyn, Doctor of Technical
Sciences, Professor (Deceased); N.I. Levitskiy, Doctor
of Technical Sciences, Professor; N.P. Rayevskiy, Candidate
of Technical Sciences; L. N. Reshetov, Doctor of Technical
Sciences, Professor; and M.A. Skuridin, Doctor of Technical
Sciences, Professor.

Card 1/5

Transactions of the Institute (Cont.)

SOV/2562

PURPOSE: This collection of articles is intended for
scientific research workers and engineers.

COVERAGE: This collection of articles deals with the following
topics: balancing of rotors, the dynamics of a machine
unit, program control of milling machines, vibration
insulation for massive foundations, and electric drives
with flywheels. No personalities are mentioned. References
follow several of the articles.

TABLE OF CONTENTS:

Preface

3

Shteynvol'f, L.I. [Candidate of Technical Sciences], and
A.A. Makhonkin [Engineer]. Dynamic Balancing of Rotors
in Machinery

5

Card 2/5

Transactions of the Institute (Cont.)

SOV/2562

This system of digital control was developed in 1949 and used in the automation of milling machines for machining curvilinear profiles and surfaces without a duplicating device. Arrangements of programming and actuating mechanisms are shown on schematic diagrams.

Shteynvol'f, L.I. Vibration Insulation in Massive Foundations 40
Insulation for vertical forced vibrations of constant and variable frequencies caused by dynamically unbalanced machines is investigated.

Nazarov, G.I. [Candidate of Technical Sciences]. Analytical Resolution of Parameters of an Electric Drive With Flywheel by a Cosine Rectangular Load-time Diagram of the Driven Machine 51
A general solution is obtained by using dimensionless ratios of corresponding quantities in load-time diagrams of the motor and the driven machine. For the direct interdependence between these ratios a graph is plotted. By

Card 4/5

Transactions of the Institute (Cont.)

SOV/2562

means of this graph solutions for a unit of any power capacity can be obtained.

AVAILABLE: Library of Congress

Card 5/5

GO/mg
12-7-50

LITVIN, G. Ye.

Engineers G. A. Agranovskiy, N. M. Levitanskaya, A. G. Kalinin (NIIAvtoprom), G. Ye. Litvin, A. A. Bulatnikov (Automobile Works imeni Likhachev) were awarded the First N. A. Minkevich Prize for the paper "Investigation and Introduction of a Standard, Controlled Atmosphere for Heat Treatment and Chemical-Heat Treatment of Steel", wherein these authors propose an original method of purification of town gas by passing it through zinc-chromium catalysts.

Results of the 1958 Competition for Obtaining imeni D. K. Chernov and imeni N. A. Minkevich Prizes, Metallovedeniye i termicheskaya obrabotka metallov, 1959, No. 6, pp 62-64

LITVIN, G. Ye.

The first N. A. Minkevich prize was given to the following teams:
Candidate of Technical Sciences A. D. Assonov, Engineers N. I. Tereshchin,
V. F. Nikonov, D. I. Kostenko, S. G. Marincev, I. S. Yurkov, N. N. Inshakova,
N. N. Yanchuk, A. A. Bulatnikov and G. Ye. Litvin (Automobile Works imeni
Likhachev) for their paper "Investigation and Introduction of the Process of
Nitrocementation by Direct Isothermal Hardening in an Alkali Inside Muffleless
Equipment", their design of a muffleless furnace heated by vertical radiation
tubes is of interest.

Results of the 1958 Competition for Obtaining imeni D. K. Chernov and imeni
N. A. Minkevich Prizes, Metallovedeniye i termicheskaya obrabotka metallov,
1959, No. 6, pp 62-64

KUROCHIKIN, Yu.P., kand.tekhn.nauk; MIKHAYLOV, N.M., doktor tekhn.nauk;
LITVIN, G.Ye., inzh.

Use of contact heat exchange for the cooling of quartz sand
after drying. Lit. proizv. no. 12:28-30 D '60. (MIRA 13:12)

(Sand, Foundry--Cooling)

LITVIN, G.Ye.

New heat-treating equipment. Metalloved. 1 term. obr. met. no.6:
46-47 Je '63. (MIRA 16:6)

(Case hardening—Equipment and supplies)

LITVIN, G.Ye.

Equipment with molecular sieves for the production of protective
gases. Metalloved. i term. obr. met. no.6:60-61 Je '63.
(MIRA 16:6)

(Protective atmospheres)
(Adsorbents)

MAKHOV, M.S., inzh.; LITVIN, I.A., inzh.; BULANOVSKIY, V.S., inzh.

Monorail transportation for Moscow. Gorkhoz.Mosk. 36 no.4:26-
27 Ap '62. (MIRA 15:8)

1. Gosudarstvennyy proyektnyy institut po proyektirovaniyu
stroitel'stva promyshlenno-transportnykh sooruzheniy.
(Moscow--Railroads, Single-rail)

NEDOLUZHENKO, I.A., doktor ekonomicheskikh nauk; ANDREYEV, A., kandidat ekonomicheskikh nauk; BELOV, S.P., kandidat tekhnicheskikh nauk; BOROMINSKIY, B.A., assistant; LITVIN, I.B., assistant.

"Economics of the coal industry in the U.S.S.R." A.A. Zvorykin, D.M. Kirzhner, M.B. Kundin, Reviewed by I.A. Nedoluzhenko and others. Ugol' 31 no.2:46-48 P '56. (MLRA 9:5)

1. Kafedra ekonomiki gornoy promyshlennosti Leningradskogo gornogo instituta.
(Mining industry and finance)(Zvorykin, A.A.)(Kirzhner, D.M.)
(Kundin, M.B.)

LITVIN, I.F.

Operating hydraulic coal-mining equipment under winter conditions. Mekh.i avtom.proizv. 14 no.1:55-57 Ja '60.
(MIRA 13:5)

1. Glavnyy inzhener Bachatskogo ugol'nogo rezerva.
(Hydraulic mining)

BOGATYREV, V.P., gornyy inzh.; LITVIN, I.F., gornyy inzh.

We shall celebrate the anniversary of the Miner's Day with new
production achievements. Ugol' 37 no.8:21-22 Ag '62.
(MIRA 15:9)

1. Bachatskiy ugol'nyy kar'yer.
(Moscow Basin—Coal mines and mining—Labor productivity)

SUMIN, I.P.; ZOL'NIKOV, V.V.; BAYEV, G.G.; SHERSTNEV, D.M.; LITVIN, I.F.

Improving boring and blasting operations. Ugol' 39 no.12:32-35
D '64. (MIRA 18:2)

1. VzryvPEU Kombinata Kuzbassugol' (for Sumin, Zol'nikov, Bayev).
2. Trest Belovugol' (for Sherstnev). 3. Bachatskiy ugol'nyy
kar'yev (for Litvin).

LITVIN, I. I.,

"Lithology of the Upper Jurassic and Lower Cretaceous Particolored Deposits of the Northwestern Edge of the Donets Ridge." (Dissertation Degree of Candidate of Geological and Mineralogical Sciences) Min Higher Education USSR, Khar'kov Stat U imeni A. M. Gor'kiy, Khar'kov, 1955

SO: M-1036 28 Mar 56

LITVIN, I.I.

Facies of upper Jurassic and lower Carboniferous variegated
sediment in the northwestern border of the Donets Ridge. Uch.
zap.KHGU 73:151-164 '56. (MIRA 12:12)
(Donets Ridge--Sediments(Geology))

LITVIN, I.I.; LITVIN, S.V.

Siliceous rocks from Cenomanian deposits in the northwestern outskirts of the Donets Basin and the southeastern part of the Dnieper-Donets Depression. Dokl. AN SSSR 135 no.2:419-422 N '60. (MIRA 13:11)

1. Khar'kovskiy gosudarstvennyy universitet im.A.M.Gor'kogo.
Predstavleno akademikom N.M.Strakhovym.
(Donets Basin--Rocks, Siliceous) (Dnieper Valley--Rocks, Siliceous)

LITVIN, I.I.

Materials on the lithology of upper Jurassic variegated sediments in
northwestern margins of the Donets Basin. Izv. vys. ucheb. zav.; geol.
i razv. 4 no. 12: 62-66 D '61. (MIRA 15:2)

1. Khar'kovskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.
(Donets Basin--Rocks, Sedimentary)

LITVIN, I.I.

Trace elements in lower Cretaceous rocks of the Dnieper-Donets
Lowland. Dokl. AN SSSR 139 no.2:450-452 J1 '61. (MIRA 14:7)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
Predstavleno akademikom N.M. Strakhovym.
(Dnieper-Donets Lowland--Trace elements)

LITVIN, I.J.

Lower Cretaceous continental deposits of the Dnieper-Donets
Lowland. Dokl. AN SSSR 139 no.6:1435-1437 Ag '61.

(MIRA 14:8)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
Predstavleno akademikom D.V. Nalivkinym.
(Dnieper-Donets Lowland--Geology, Stratigraphic)

LITVIN, I.I.

Albian-Senomanian deposits in the Dnieper-Donets Lowland and
the northwestern margin of the Donets Basin. Dokl. AN SSSR
154 no.4:836-839 F '64. (MIRA 17:3)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
Predstavleno akademikom D.V. Nalivkinym.

LITVIN, Ivan Il'ich; SHAFOSHNIKOV, D.P., *same. geol.-min. nauk,*
otv. red.; PESCHANSKAYA, A.G., *red.*

[Minor chemical elements in the Albian-Senomanian
sediments of the Dnieper-Donets Lowland] *Malye khimicheskie*
elementy v al'b-senomanskikh otlozheniyakh Ineprovskoi
Donetskoi vpadiny. Khar'kov, Izd-vo Khar'kovskogo univ.,
1964. 121 p. (MLA 18:2)

LITVIN, I.I.

Microanalysis of iodine by the volumetric method. Ukr.biokhim.zhurn. 25 no.4:
451-461 '53. (MLRA 6:11)

1. L'vivs'kiy derzhavniy medichniy institut, kafedra biokhimii.
(Iodine) (Volumetric analysis)

U S S R

A method for the determination of iodine in biological materials. I. Litvin (Medic. Inst., Lvov, Ukraine). *Biokhim. Zh.* 48, 1353-54 (in Russian, 353-4) (1954); cf. C.A. 48, 13532g. — Ashing should be accomplished at 100°. Higher temps. result in loss of I₂. The amt. of reducing agent used in the distn. should be calcd. on the basis of the residual chromic acid. Too great an excess of the reducing agent also leads to a loss of I₂. The completeness of the reduction and distn. steps also depends on the H₂SO₄ concn. in the distg. mixt. The app. of Leipert (cf. C.A. 32, 3207*) fails to distil small quantities of I₂. After the distillate is evapd. to 0.3-0.4 ml. the I₂ is detd. by Winkler's volumetric method. Detn. of I₂ by the procedure here described can be made in the presence of chromates and nitrates, traces of which find their way into the distillate. In detg. I₂ in plasma 07% of theoretically computed I₂ was obtained. The standard error is $\sigma = \pm 0.032 \gamma$ of I₂. It is suggested that the individual steps of the procedure be accomplished with the aid of specially devised set-ups, described and depicted in the text.

B. S. Levine

3
- Chain Biochem.

for

LITVIN, I.I. [Lytvyn, I.I.]

Method of determining iodine in biological material. Report No.2:
Determination of 0.2 - 2.0 micrograms of iodine in the presence of
trace amounts of chromates, bromides and nitrites. Ukr.biokhim.zhur.
30 no.3:416-427 '58. (MIRA 13:3)

1. Department of Biochemistry of the L'vov Medical Institute.
(IODINE--ANALYSIS)

LITVIN, I.I. [Lytvyn, I.I.]

Determination of iodine in biological materials. Report No.3: Catalytic-volumetric method of iodine determination. Ukr.biokhim.zhur. 31 no.4:606-616 '59. (MIRA 13:1)

1. Department of Biochemistry of the Lvov Medical Institute.
(IODINE) (CERIMETRY)

DUBOVYY, M.I., kand.med.nauk; LITVIN, I.I., dotsent; SHTABSKIY, B.M.,
assistant; SHCHERBAKOVA, A.K., kand.med.nauk

Chemical dermatitis in coal miners. Vest.derm. i ven. 34
no.2:43-46 F '60. (MIRA 13:12)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - prof.
A.A.Shteyn) i kafedry obshchey gigiyeny (zav. - prof.V.Z.
Martynyuk) L'vovskogo gosudarstvennogo meditsinskogo instituta
(direktor - prof.L.N.Kuzmenko).
(OCCUPATIONAL DERMATITIS)
(MINING)

LITVIN, I.I.; MIGACHEVA, Ye.Ye.

Recent finds of lower Cretaceous plants in the Dnieper-
Donets Lowland. Dokl.AN SSSR 133 no.6:1416-1417
Ag '60. (MIRA 13:8)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M.
Gor'kogo. Predstavleno akad. D.V.Malivkinym.
(Dnieper Valley--Paleobotany, Stratigraphic)
(Donets Basin--Paleobotany, Stratigraphic)

LITVIN, I.I., (USSR)

"Determination of Iodine in Biological Objects."

Report presented at the 5th Int'l. Biochemistry Congress,
Moscow, 10-16 Aug 1961.

LITVIN, I.P.

Geographical names of Mexico. Vop. geog. no.58:139-150 '62.

(Mexico--Names, Geographical)

(MIRA 15:9)

LITVIN, I.S., inzh.

Precast reinforced concrete foundations of steam boilers
with a rating of 220 tons per hour. Energ.stroi. no.15:
13-16 '59. (MIRA 13:8)

1. Leningradskoye otdeleniye inatituta "Teploelektroproyekt."
(Concrete footings) (Boilers)

LITVIN, Isaak Simonovich; KHODZHAYEV, S.P., red.; SOBOLEVA, Ye.M.,
tekhn. red.

[Precast reinforced concrete elements of thermal electric
plants]Sbornye zhelezobetonnye konstruktsii teplovykh
elektrostantsii. Moskva, Gosenergoizdat, 292 p.
(MIRA 16:3)

(Electric power plants)
(Precast concrete construction)

LITVIN, I.S., inzh.; BLANK, I.I., inzh.; KORNILOV, B.B., inzh.; FINKEL'-
SHTEYN, R.I., inzh.

Precast reinforced concrete standardized foundations for turbogenerators with 50 to 300 thousand kw. power ratings. Energ. stroi. no. 32:7-15 '62. (MIRA 16:5)

1. Leningradskoye otdeleniye Vsesoyuznogo gosudarstvennogo proyekt-nogo instituta stroitel'stva elektrostantsiy.

KORNEV, N.A., kand. tekhn. nauk; KUDRYAVTSEV, A.A., kand. tekhn. nauk; LITVIN,
I.S., inzh.; DEVIATISIL'NIY, G.I., inzh.

Keramzit concrete wall panels 12 m. long. Prom. stroi. 41 no.8:33-37
Ag '64. (MIRA 17:11)

ABASHIDZE, A.I., doktor tekhn. nauk; LITVIN, I.S., inzh.

Study of the vibration conditions of a precast reinforced concrete
foundation of a 200 Mw. turbogenerator. Energ. stroi. no.1:7-12 '65.
(MIRA 18:7)

LITVIN, K. I. and *PESHKOVA, V. M.*

"Colorimetric Determination of Copper with the Aid of
Dimethylglyoxime", Zhur. Analit. Khim., 3, No. 3, 1948.
Zhur. Anal. Chem. Moscow State U., -c1948-.

MENKOVSKIY, M.A.; PETROV, N.A., [deceased]; LITVIN, K.I.;
CHERNAVSKIY, D.S.

Reciprocal solubility of bromine, hydrobromic acid and
water. Zhur.neorg.khim. 1 no.7:1658-1664 J1 '56. (MLRA 9:11)

1. Moskovskiy gornyy institut, Kafedra khimii.
(Bromine) (Hydrobromic acid)

LITVIN; K.I.

✓ 284. Generant reagents. Determination of alkali-earth metals. A. P. Terent'ev, E. G. Eukhadze and K. I. Litvin (S. V. Lomonosov Moscow State Univ., *Zhur. Anal. Khim.*, 1956, 11 (1), 55-62.)

Generant reagents are organic compounds that yield precipitant ions during the course of a reaction. Dimethyl sulphate, phenol, sodium sulphamate and sodium *p*-tolylsulphamate are reagents of this type for Ba, Sr and Ca. The co-precipitation of impurities is minimised by their use. Barium can be precipitated as BaSO₄ in the presence of NO₃⁻, ClO₄⁻, Fe³⁺, Fe²⁺, Cr³⁺ and other ions without their interfering. To determine Ba, the soln. containing 10 to 70 mg of Ba is mixed with 5 to 15 ml of glycerol and diluted to a vol. of 50 to 100 ml with water. Freshly prepared dimethyl sulphate (5 ml) is added dropwise, the soln. is kept for 10 min. on a boiling-water bath, and the compact crystalline ppt. is collected on paper, washed with water, dried and ignited. Alternatively, the ppt. is separated in a sintered-glass crucible and dried at 140° to 160° C. The method

is applied to the determination of Ba in the presence of Sr and Ca; the glycerol is replaced by 10 ml of 20 per cent. sugar (e.g., lactose) soln. and the reagent is added to the hot (100° C) soln. G. S. SMITH

✓ Moscow Mining Inst. in Stalin,

LITVIN, K. I., Candidate Chem Sci (diss) -- "Use of the method of nascent reagents for analysis of the alkali-earth metals and magnesium". Moscow, 1959. 15 pp (Moscow State U in M. V. Lomonosov), 150 copies (KL, No 25, 1959, 128)

5(2)

AUTHORS:

Terent'yev, A. P., Litvin, K. I.,
Rukhadze, Ye. G.

SOV/75-14-3-5/29

TITLE:

The Method of Nascent Reagents (Metod voznikayushchikh reagentov). Communication 2. The Use of Dioxane in the Determination of Calcium and Strontium as Sulfates (Soobshcheniye 2. Primeneniye dioksana pri opredelenii kal'tsiya i strontsiya v vide sul'fatov)

PERIODICAL:

Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3, pp 288-293 (USSR)

ABSTRACT:

Dioxane forms with metal salts complexes which dissociate slowly. It exhibits at the same time an effect of salting-out. The SO_4^- ion (nascent ion) which is formed by hydrolysis of dimethyl sulfate yields compact precipitates with excess dioxan in weakly acid or neutral solution (Fig). On the basis of this phenomenon a rapid method was devised for the determination of Ca as sulfate-semihydrate or anhydrite. The determination of Ba and Ca in one run is carried out by inhibition of the CaSO_4 -separation by means of glycerin. After

Card 1/2

The Method of Nascent Reagents. Communication 2. SOV/75-14-3-5/29
The Use of Dioxane in the Determination of Calcium and
Strontium as Sulfates

filtering the BaSO_4 -precipitate CaSO_4 is precipitated by
addition of dioxane. Further the analysis methods for the
determination of Ca in the presence of Al, Fe, NH_4 and HCl
are given. So are the directions for the determination of Ca
in limestone and clay, and for the determination of strontium.
There are 1 figure, 7 tables, and 29 references, 10 of which
are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov).
Gornyy institut, Moskva (Mining Institute, Moscow)

SUBMITTED: September 21, 1957

Card 2/2

GORDON, S.A., starshiy nauchnyy sotrudnik; LITVIN, K.I., starshiy inzhener

Efficient analysis of coal ash by the trilonometric method.
Nauch. trudy MGI no.27:89-96 '59. (MIRA 14:6)
(Coal--Analysis)

LITVIN, K.I.; starshiy inzhener; RUKLADZE, Ye.G.; TERENCEV, A.P.

Determination of barium by the method of "nascent reagents."
Nauch. trudy MGI no.27:97-113 '59. (MIRA 14:6)
(Barium--Analysis)
(Chemical tests and reagents)

S/075/63/018/003/005/006
E071/E436

AUTHORS: Terent'yev, A.P., Litvin, K.I., Rukhadze, Ye.G.

TITLE: Preparation of pure precipitates by reagents forming
in situ

PERIODICAL: Zhurnal analiticheskoy khimii, v.18, no.3, 1963, 406-407

TEXT: The possibility of using the above method was demonstrated
by precipitation of barium sulfate in the presence of a large
excess of calcium (1 to 10) from dimethylsulfate-glycerine
solutions. Radioactive Ca^{45} was used for the experiments.
The coprecipitation of calcium was negligible (only 0.9 to 1.0%).
There is 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im.
M.V.Lomonosova (Moscow State University imeni
M.V.Lomonosov)

SUBMITTED: June 9, 1962

Card 1/1

BEFENAV, A.P., OTVIN, A.

Application of the vector-potential method for the study of
recent tectonic movements. Vest. Mosk. un. Ser. 5: Geog.
19 no.3:21-28 1946 '64. (MIRA 17:6)

1. Nauchno-issledovatel'skaya laboratoriya geologicheskikh
kriticnykh tocheniy poverkny i razvedyvanosti.

LITVIN, L.F.

BOGUSHEVICH, V.D.; LITVIN, L.F.

Theory of dynamic vibration absorbers applied to D.I. Ryzhkov's
vibration damper. Truly GNTD NVTU no.3:54-58 '57. (MLRA 10:9)
(Machine tools--Vibration)

KECHEK, R.I.; LITVIN, L.I.

Practice in saving and replacement of not easily available non-ferrous metals and alloys in the enterprises of North Caucasus Economic Council. Biul.tekh.-ekon.inform.Cus.nauch.-issl.inst. nauch.1 tekhn.inform. 18 no.5:59-62 My '65.

(NIRA 18:6)

KFCHEX, R.I.; LITVIN, L.I.

Replacing nonferrous metals by plastics in the machinery industry
of the North Caucasus Economic Council. Biul. tekhn.-ekon. inform.
Gos. nauch.-issl. inst. nauch. i tekhn. inform. 18 no.7:62-63
Jl '65. (MIRA 18:9)

LITVIN, L.M.

Artificial pneumothorax in elderly people. Vrach.delo no.2:199
F '57. (MLRA 10:6)

1. L'vovskiy nauchno-issledovatel'skiy institut tuberkuleza.
(PNEUMOTHORAX)

LITVIN, L. M., Cand Med Sci (diss) -- "Clinical aspects and treatment of pulmonary tuberculosis among the elderly". L'vov, 1960. 16 pp (L'vov State Med Inst), 230 copies (KL, No 14, 1960, 137)

LITVIN, L.M.

Role of ACTH and steroid hormones in compound treatment of
meningeal tuberculosis in adults. Probl. tub. 41 no.9:
44-48 '63 (MIRA 17:4)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta tuber-
kuleza (dir. - kand. med. nauk G.I. Chemeris, nauchnyy rukovo-
ditel' - prof. I.T. Stukalo).

ACCESSION NR: AT4045963

S/2996/64/000/054/0362/0367

AUTHOR: Drukovanyy, M. F. (Candidate of technical sciences); Komir, V. M. Engineer, (Litvin, L. N. (Engineer), Myachina, N. I. (Engineer)

TITLE: The effect of the air gap in the charge on the speed with which the stemming is blown from the shaft and the time characteristics of the blast impulse

SOURCE: Nauchno-tekhnicheskoye gornoye obshchestvo. Vzryvnoye delo, no. 54/11, 1964. Upravleniye deystviyem vzryva (Control of blasting operations), 362-367

TOPIC TAGS: blasting, mine blasting, air gap, stemming, blast impulse, explosion efficiency

ABSTRACT: The authors have conducted a series of experiments to measure the pressure of the gases on the stemming and the speed with which the explosion products escape from the shaft. In the present article, they report on the results of two of the more characteristic experimental blasts set off at the Dokuchayevskiy flyuso-dolomitnyy kombinat (Dokuchayev Flux-Dolomite Combine) for the purpose of studying the effect of air gaps on the above-mentioned factors. For this purpose, a steel tumbler, 220 mm in diameter and 300 mm in height, was placed in the shaft on an explosive charge; located within the casing of the tumbler there were sensors for the measurement of pressure. Attached to the tumbler was a 1.5-inch tube, 5-7 meters in length, inside of which wire leads were run from the sensors to an N-700 Cord 1/2

ACCESSION NR: AT4045963

oscilloscope. The shaft section above the steel tumbler was filled in with sandy-clay stemming. The part of the tubing which protruded above the shaft was alternately colored black and white in order to facilitate observations of it during the blast. The assumption was that, during the explosion, the tumbler would block the gases in the shaft with sufficient efficiency, with the movement of the tumbler and tube serving to characterize the process of stemming blow-out. The flight of the tube was recorded by means of an SKS-1m high-speed motion-picture camera. Further details and mathematical considerations are given in the article. The authors found that the speed with which the stemming leaves the shaft depends, to a considerable degree, on the size of the air gap, with the length of the gap, in turn, constituting one of the decisive factors which determine the time characteristics of the blast impulse. They also determined that the use of charges with air gaps permits a 15-40% increase in the duration of the blast impulse, thus making possible the attainment of a higher degree of efficiency in the explosion itself. Orig. art. has: 2 tables and 15 formulas.

ASSOCIATION: Filial Instituta mekhaniki AN USSR (Branch Office of the Institute of Mechanics, AN UkrSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: WA

Card 2/2 NO REF SOV: 000

OTHER: 000

DRUKOVANYI, M.F., kand. tekhn. nauk; KOMIR, V.M., inzh.; LITVIN, L.N., inzh.;
MYACHINA, N.I., inzh.

Effect of the air space in a charge on the ejection speed
of the stemming out of the hole and temporary characteristics
of the detonation impulse. Vzryv. delo no.54/11:
362-367 '64. (MIRA 17:9)

1. Filial Instituta mekhaniki AN UkrSSR.

LITVIN, L.O.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 18907.

Author : L.O. Litvin.

Inst : Kiev University.

Title : Concerning Lithium-Ferruginous Micas in Pegmatites of Volynia.

Orig Pub : Nauk, Zap. Kyivsk. un-t, 1956, 15, No 2, 119-128.

Abstract : Micas represented by all intermediate members of the isomorphous series lepidomelane-lepidolite - lithium lepidomelane, protolithionite, zinnwaldite, cryophyllite and ferruginous lepidolite were studied. The distribution of these varieties among the zones of pegmatite bodies shows that an enrichment of the melted mass with volatiles and Li and a loss of Fe have taken place during the process. The general chemical composition of micas in accordance with 16 analyses (in %): SiO_2 32.53 - 52.78, TiO_2 0.16 - 1.64, Al_2O_3 17.55 - 27.00, Fe_2O_3 0.26 - 5.18, FeO 2.74 - 30.93, MnO 0.22 - 0.75,

Card 1/2

-18-

LITVIN, M.

More on planning deductions from profits. Fin. SSSR 22 no.1:60-
63 Ja '61. (MIRA 14:1)

1. Nachal'nik sektora Kemerovskogo oblfinotdela.
(Kameroovo Province--Tax accounting)

LITVIN, M.

Our control method. Fin. SSSR 23 no.12:57-59 D '62.
(MIRA 16:1)

1. Nachal'nik sektora Kemerovskogo oblastnogo finansovogo
otdela.

(Kemerovo Province--Finance)

LITVIN, M.

Unsolved problems of economic work. Fin SSSR 37 no.5:32-34 My '63.
(MIRA 16:5)

1. Zamestitel' nachal'nika otдела gosudarstvennykh dokhodov
Kemerovskogo promyshlennogo oblastnogo finansovogo otдела.
(Kemerovo Province—Tax collection)

LITVIN, M. A.																																																																													
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Some alkaline rocks of western Mongolia. B. M. Kupchik and M. A. Litvin. <i>Trans. Mongolian Comm. Acad. Sci. U. S. S. R.</i> No. 32, 1 24 (1937). <i>Mineralog. Abstracts</i> 7, 452 (1940).—The rocks described include nephelite-syenite, riebeckite-granite and 2 dike rocks, one of which is a biotite-gabbro-peridotite, consisting of biotite, olivine, labradorite, hornblende, chlorite, apatite and iron ore. An analysis shows 27.2% FeO + Fe ₂ O ₃ . Other intrusive rocks are also described. C. A. S.																																																																													
ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION																																																																													
<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td> </tr> </table>																										1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
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LITVIN, M. A. Cand. Geolog-Mineral Sci.

Dissertation: "Basic Features of Petrology of the Zangezury Ore-Bearing Region."
All-Union Sci. Res. Inst of Mineral Raw Materials. 7 May 47.

SO: Vechernyaya Moskva, May 1947 (Project #17836)

BAZHENOV, S.V., dotsent; SIVOLOZHSKIY, T.Ya., assistant; LITVIN, M.M.,
starshiy laborant, veterinarnyy vrach.

New mamal on veterinary pharmacology ("Veterinary pharmacology".
Reviewed by S.V. Bazhenov, I.IA. Sivolozhskii, M.M. Litvin).
Veterinariia 33 no.6:88-90 Je '56. (MLRA 9:8)

1. Dafedra farmakologii Kiyevskogo gosudarstvennogo veterinarnogo
instituta.
(Veterinary materia medica and pharmacy)

10701A, M.V., 10701B.

Networks for realizing the principle of operation of the
device. Study GSI 13 no. 2, 1974. (MTR 17.8)

LITVIN, M.V.

Detection of impulse interference in the background of a radio-telephone signal. Izv.vys.ucheb.zav.; radiotekh. 5 no.5:608-613 S-0 '62. (MIRA 15:11)

1. Rekomendovana kafedroy radiopriyemnykh ustroystv Gor'kovskogo politekhnicheskogo instituta imeni A.A.Zhdanova.
(Radiotelephone)

LITVIN, M.V.

Suppression of impulse noise by intermittent amplitude limitation
in the low-frequency channel of a radio receiver. Izv. vys.
ucheb. zav.; radiotekh. 6 no.5:509-513 S-O '63. (MIRA 17:1)

1. Rekomendovana kafedroy radiopriyemnykh ustroystv Gor'kovskogo
politekhnicheskogo instituta imeni A.A. Zhdanova.

LITVIN, N.

Highways during the seven-year plan. Za rul. 17 no.3:1-2
Mr '59. (MIRA 12:5)

1. Nachal'nik "Glavdorstroya" Ministerstva transportnogo
stroitel'stva SSSR.
(Road construction)

LITVIN, H.; MIKHAYLOV, V.

Highways in Canada. Avt.dor. 22 no.2:26-28 P '59.
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LITVIN, N.; MIKHAYLOV, V.

Roads in Canada. Avt.dor. 22 no.4:30-3 of cover. Ap '59.
(MIRA 12:6)

(Canada--Roads)

COUNTRY : USSR M
 CATEGORY : Cultivated Plants. Cereals.
 ABS. JOUR. : RZhBiol., No. 195 8, No. 104645
 AUTHOR : ~~Lityin, N. A.~~
 INST. : Ukraine Scientific Research Institute of Irrigated *)
 TITLE : Cultivation of Corn for Grain with Widened Spaces
 Between the Rows.
 ORIG. PUB. : Byul. nauchno-tekhn. inform. Ukr. n.-i, in-t oroshayemogo
 zemled., 1957, No. 3, 32-35
 ABSTRACT : According to the 1956 experiments at Ukrain Scientific
 Research Institute of Irrigated Agriculture, on Izmail'-
 skoye Experimental Field and under production conditions,
 the corn plantings by the rectangular-hill method (2 plants
 in a hill with a bed area of 140 x 70 centimeters)
 produced practically the same yields as with the square-
 hill method of 70 x 70 centimeters. The number of plants
 *) Agriculture.

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30

KABO, I.D.; LITVIN, N.A., kand. sel'skokhoz. nauk; BELOUS, N.V.; VASILENKO, I.D.; ZEYFERT, G.A.; KOVALEV, F.V.; TURULEV, V.K., aspirant

Sorgo as a valuable crop. Zemledelie 27 no.4:52-61 Ap '65.
(MIRA 18:4)

1. Nachal'nik Upravleniya zernovykh i kormovykh kul'tur Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov Uzbekskoy SSR (for Kato). 2. Ukrainskiy nauchno-issledovatel'skiy institut oroshayemogo zemledeliya (for Litvin, Belous, Vasilenko). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut agrolesomeliyatsii (for Zeyfert). 4. Donskoy sel'skokhozyaystvennyy institut (for Kovalov, Turulev).

COUNTRY : USSR
 CATEGORY : Cultivated Plants. Grains. Leguminous Grains.
 Tropical Cereals.
 ABS. JOUR.: Ref Zhur -Biologiya, No.3 , 1959, No. 206
 Author : Litvin, N.A.
 INST. : Ukrainian Sci. Res. Inst. of Irrigated Agriculture
 TITLE : Rectangular Pocket Planting.

ORIG. PUB.: Kukuruz, 1958, No.6, 18-21

ABSTRACT : Experiments were made to determine the yield-
 ing capacity of corn planted by various
 arrangements by the Ukrainian Scientific Re-
 search Institute for Irrigated Agriculture in
 1956-1957 and by Ismail Experimental Field
 in 1956. In the drought year of 1957, 70 x
 140 cm rectangular pocket plantings compared
 with the check row pocket method of 70 x 70
 cm showed a gain of 3-6% in yield, and a
 saving of 17-50% in hand labor. Under actual

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